

Stratigraphic Log

Photo Record Sheet

= Shatum

Camera: _____

Film: **18H080**

Photographer: _____

Date Frame No. Subject Direction Looking Time of day

-13-89	S ^{#1}	<p>A-Horizon - Consists of top few centimeters of humus and leaf mold plus underlying soil of dark brown sandy loam. Sand content is high ~ 70% - 80% sand. Also contains small pebbles and gravels. This layer is continuous across the site and appears to thicken as one moves from north (near the road) to south (near the race and river). Artifacts are found in this stratum and its thickness can extend in places from ~ 5.0 cm below surface to ~ 40.0 cm below surface.</p> <p>5YR 3/4 Munsell Color.</p> <p>This stratum appears to be the top level of soil that has suffered some disturbance due to natural ^{vertical} slump + movement towards the valley.</p> <p>Some larger cobbles of</p>		
11-13-89	S 2	<p>7.5YR 4/6 .</p> <p>B-Horizon = Underlying S^{#1} is a reddish-orange brown, micaceous sand with fewer gravels and cobbles than S1. It appears to be</p>		

STRATA LOG

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Date	Frame No.	Subject	Direction Looking	Time of day
11-13-89	S-2	Continuous throughout site. It is the natural subsoil onto which and into which the stone foundations of Simpsonville were probably set.		
11-13-89	S-3. Possible C Horizon	(Discontinuous over site?) S-3 appears to be a natural layer of gleyed clay that has been picked up closer to the surface in the southern part of the site near the ridge ^{ridge} and river. It has appeared in those STP's to the south + west where wetter conditions exist near the surface as an orange gleyed soil and as a reddish clay.		
11-13-89	S-4	Appeared first in STP #41 located in Feature 5. S-4 is discontinuous over site. It appears to be a clean, sand fill, located on the southern edge of the road in F5.		
(X) 12-13-89 (X)	(X)	S4 was also delineated in TV10, adjacent to STP 41. upon excavation S4 was changed to [F29] - a possible trench/ditch associated with F13 (old road). See also page 63 of Field Notes.		

Photo Record Sheet

1876-77

~~SECRET~~

[illegible]

mill

71

70

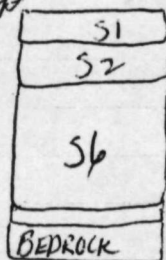
72

18 H080

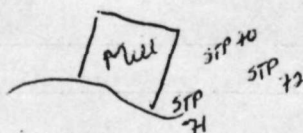
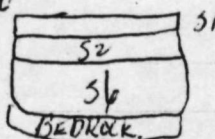
New Stratum 11-20-89

S6 New stratum defined in STP's #72 and STP#70 - In both cases S1 and S2 overlies this new stratum. This stratum is discontinuous across the site and appears only in the area south of the mill. It is probably a cultural stratum consisting of mottled dark gray/brown sand with a more "oily" content to it than clayey. It is deep ~ (approx 45.0 cm) and might represent a buildup of debris over the years in the area where high mill activity occurred. Possibly it might be sand that contained the occasional cleaning out of the mill, or the clearing out of the backed debris after the mill fires. Or it may represent a natural stratum (in this area only) that was exposed to the daily discards and cultural buildup of or mixing of the sand and cultural material.

STP#72



STP#70



In STP#72 This stratum overlies a dark somewhat sandy/clay (70% sand) mix that is directly on top of bedrock at approx 80.0 cm. below surface.

In STP#70 The same stratigraphy appears, i.e. S1, S2 - new stratum (same consistency) but in this case S - overlies bedrock at approx. 40 cm. below surface.

Mill face STP#71
up rocks until
into an open
area



STP#71 is directly on the south wall of the mill ~ about 1 m. south of actual wall. In this STP S1 is very thick (approx 20-35 cm) and directly under S1 is the new stratum, mixed and mottled as if this is the builders trench. This STP goes down about 1 m. below surface. This "Trench" area has yielded artifacts all the way down.

Strat Log

184080

Photo Record Sheet

Camera: _____ Film: _____ Photographer: _____

Date	Frame No.	Subject	Direction Looking	Time of day
11-24-89	5-7	<p>N206 E495 - located in F6 - It is probably a middens full of S1 mixed with S2 and cultural debris. In this unit and in N205 E495, S7 lies directly underneath good S1. S7 appears to be at least 1 meter in depth where in this unit (N206, E495) it ended in a layer of oyster shells. It is discontinuous over the site but is probably directly related to the fill of F6.</p> <p>Scratch S7 as defined.</p>		
11-26-89	5-7 (MILL ONLY)	Burned layer of sand, charcoal + material in mill only (interior)		
"	5-8 (MILL ONLY)	Level of sandy, very silty material directly below S7 in mill interior only)		

Strata Log

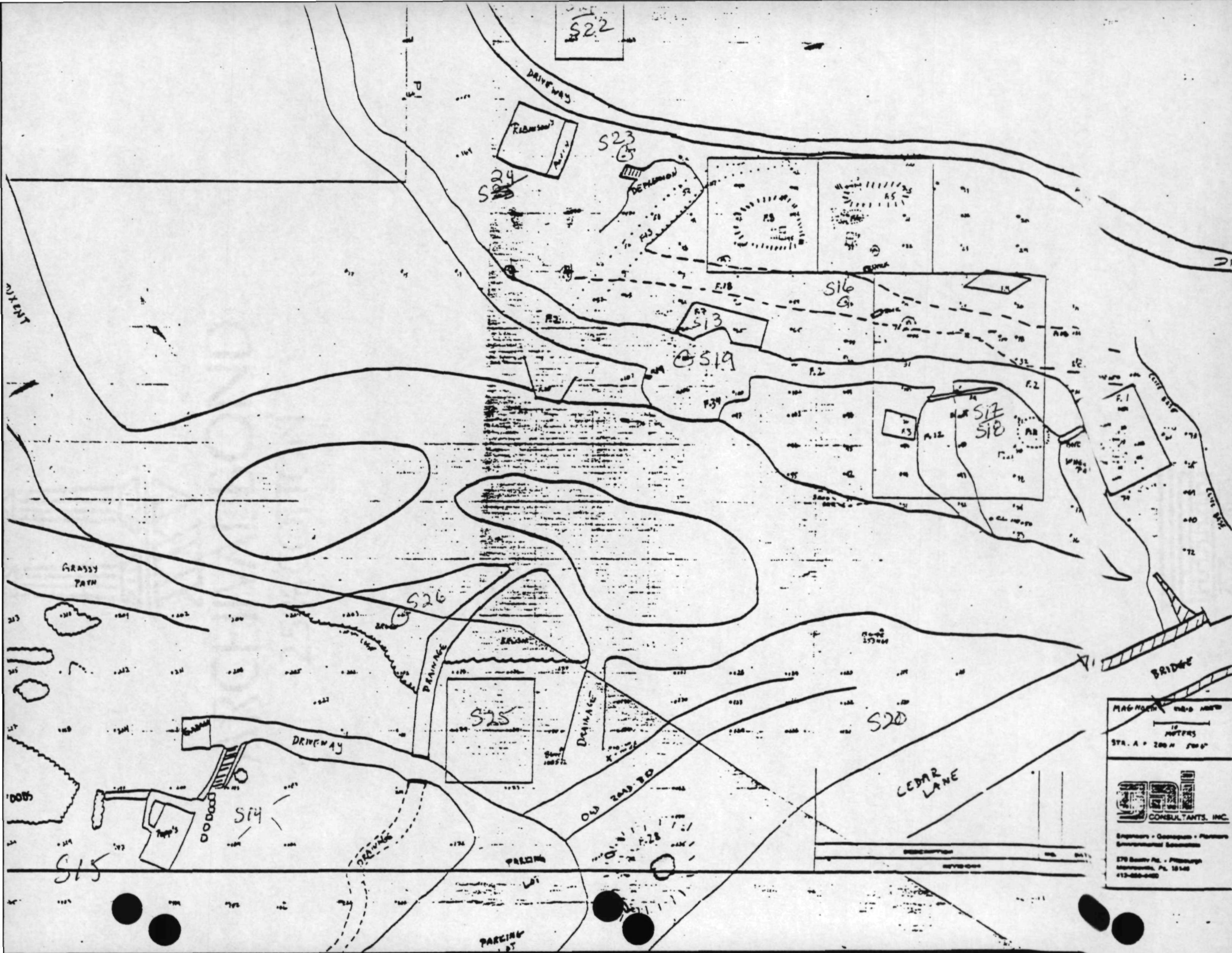
184080

Photo Record Sheet

Camera: _____ Film: _____ Photographer: _____

Date	Frame No.	Subject	Direction Looking	Time of day
12-13-89	S-9	(mill exterior) - A disturbed layer of mottled orange sandy clay w/ flecks of decomposed granite gneiss + rock also charcoal flecks. This stratum appears directly beneath F7 outside the mill. It may be associated w/ F8 inside the mill which is also an orangeish sand directly below F7 (but inside mill). Outside the mill this S9 layer has some cobbles and brick fragments associated which might indicate a disturbed S8.		
12-13-89	S 10	(mill exterior) - Dark brown bank of micaceous sand with high peat content. Perhaps this could represent a buried A horizon / living floor / humus layer - S10 ends approx. 99.0 cm below surface		
	S 11	Light gray micaceous sand directly underneath S10 outside mill. (mill exterior)		
	S12	Orange yellowish micaceous sand. very compact. Fragments - like S9		

ends approx. 119.0 cm. below surface



MAG NORTH

10 METERS

STA. A = 200M 500M



Engineers • Geologists • Planners
Environmental Scientists

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Updated Stratigraphy Log

2-19-90 S 13 Appears within TU 7 and Feature 7.

Not sure if this is continuous or discontinuous over site- TU 7 appears to be the only location for S 13 so far. It was variously described in the notes as a "clay", "sterile clayey sand loam", "clayey layer", "grey brown clay sandy loam", or "decomposing sandstone". This does NOT appear to be the S 3 "orange" or "redish" clay seen in other portions of the site. There also appears to be a transition from S2 into S13 - Possible soil profile ((is S13 the 'C' horizon in this portion of site?)) ((Is S13 a gleyed clay due to its proximity to the millrace?)) ((TU7-L6 (Interface); TU 7-L7-N 1/2; TU7-L9))

2-21-90 S 14 Located close to the Popp's driveway and west of the small N/S running drainage and associated brush.

Excavators noted it as a "new soil type, not numbered" and described it as "orange - yellow sandy with mica, gravel". Possibly fluvial in deposition, due to its position near the drainage and XX meters south of the river. ((Is this similar to S5 on north side of river? - no, don't think so)). Very few artifacts encountered - these occur primarily in the upper portions of strat. Underlies S1 and does not appear to be the S2 or S3 from north side of river. ((STP183-L3; STP185-L3; STP184-L4,5))

2-21-90 S 15 South of river, near Popp's house, upland.

"Orange, clay loam, with brown mottling", "red-orange sandy clay" emphasis on orange. Underlies the local S1, at about 20-30cm, bgs - Possible B/C horizon? Few artifacts in this strat, those that do occur are in upper portions of strat. ((STP 193-L2 thru 5; STP195-L3))

2-21-90 S 16 North of river, on millpath (F18), this is one of the few stp's that went deep below the mill path. "Reddish-yellow micaceous silt"; "yellow micaceous silt"; "pale micaceous silt". Underlies S2 - at 40cm bgs to base of STP at 68 cm - possible C horizon? (Don't really think so, this might be some sort of a depositional sediment in this area)) No artifacts. ((STP 37-L5,6,7))

2-21-90 S 17 In F9/F11/F12 area.

S 17 underlies S1 and is a "dark red, yellow silt with small amount of clay" and "brown silt loam with large dark yellow red clay mottles". From 18

to 38cm bgs Excavators referred to this (S17) as "looking like fill from the millrace". Does not really appear to be the B horizon (S2) sediments seen elsewhere on the site, although S17 is probably a developing B horizon in this area. Contains a high density of artifacts. (((STP 89)))

2-21-90 S 18 In F9/F11/F12 area.

Underlies S17. "Darker red brown sandy clay silt" or "Yellow clay silt". Less artifacts (than S17). Some sand and increasing rocks with depth (Natural/cultural?) (((STP 89)))

N.B. Do S17 and S18 represent historical alteration in this area due to construction of F2 (millrace), F9 (watergate), F11(and F12(waste race)?

2-21-90 S19 Mill race deposits- located within F2 (and not spoil alongside F2).

"Medium brown sandy clay" from 0-50 cm; at 50 cm coarse sands; at 60 cm coarse sand and gravels; at 70 cm abundant gravels; at 93 cm bright orange clay. These deposits at this time, will not be split up. Processes involved are probably the flow of the millrace and periodic flooding. (((STP 101)))

2-21-90 S 20 South of river, adjacent to Cedar Lane.

Probable recent (1984) highway building cut and fill episode (Confirmed by Mr. Peters- see field notes p63) Very mottled with pockets of different colors and textured sediments--"dark brown sandy loam mottled with light tan sandy soil and orange clay" Underlies a rocky S1, S 20 begins about 10 cm bgs. ((STP120))

2-21-90 S 21 On Bluff top, north of Mrs. Robinson's house.

"Medium brown sandy loam"- MANY artifacts, is this an historic midden within a developing A horizon? (((STP 155)))

2-21-90 S 22 On bluff top, north of Mrs. Robinson's house.

Underlies S 21. "Orange red clay subsoil" at 70 cm, bgs. B/C horizon? (Not the same as S2 and S3) (((STP 155)))

2-gw-90 S 23 Northwest of F38 (Depression area and steps)

"Sandy, brick red, rocky, pebbly, decomposed rock, no charcoal" ((similar to an old river terrace, deposit?)) Underlies S1, begins at 20 cm continues to base of STP at 50 cm bgs. Upper portion (interface with S1) contains artifacts - otherwise sterile. ((STP 157))

- 2-21-90 S 24 F45 area and south of Mrs. Robinson's house. Underlies the local A horizon. "Dark brown sandy loam" and "Dark yellowish brown sandy clay loam - larger rocks". Underlies S1, begins at 30 cm until base of STP at 50 cm bgs (Does not appear to be S2 or S3). A few artifacts at interface with upper horizon. ((STP 161-L4,5))
- 2-21-90 S 25 South of river on flat portion, in magged area. (Has this area been altered by a) flooding, river regimes and/or b) humans and drainage straightening operations?) B horizon, underlies local A horizon (similar to S2 but with many rocks - different depositional sequence). Medium brown, Grey brown, Light brown, Orange brown- sandy loam with much rock and gravel. Gravels appear to increase with depth. Variet in color is due to local conditions. Sandiness increases with depth, too. Light artifactual density. ((STP 174))
- 2-21-90 S 26 South of river, in brush, in sand. This was closest STP to the "islands" in the river. Light brown sandy loam-goes quite deep (from 0 gs to at least 70 cm bgs). S26 is probably directly related to channel deposits. ((STP203))